LITHIUM ION BATTERY PASSIVE CHARGE EQUALIZATION

ABSTRACT OF THE DISCLOSURE

An electrochemical battery includes at least two electrically interconnected electrochemical cells. Each electrochemical cell has an anode including carbon, and a cathode including a modified lithium metal oxide including at least one additional element selected from the group consisting of nickel, aluminum, magnesium, titanium, and combinations thereof. A Schottky diode is connected between the anode and the cathode. The battery is balanced by fully discharging it to a fully discharged state, and then operated in cycles of charging and discharging.

Patent Application